traxon

CREATIVE **LIGHTING** TECHNOLOGIES

USER MANUAL

FLOODLIGHT 3/225 RGB

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Manual - Version 1.0

USER MANUAL & WARRANTY

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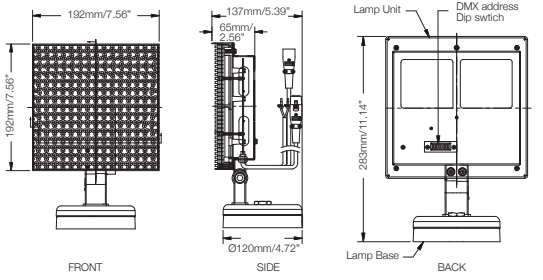
FOR YOUR OWN SAFETY AND OF THE PRODUCT, PLEASE READ THIS USER GUIDE CAREFULLY BEFORE BEGINNING SET-UP AND INSTALLATION!

1. INTRODUCTION

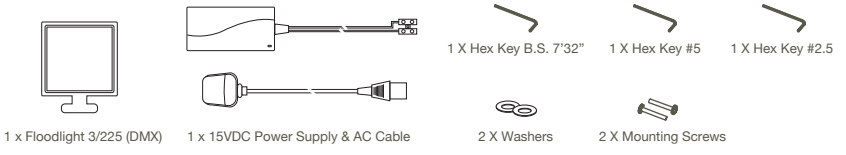
FLOODLIGHT 3/225 RGB (DMX) LU-FL-50100

The FLOODLIGHT 3/225 RGB is part of the Traxon™ Luminaires product group, enabling the use of an RGB LED color changing floodlight in an easy to install surface mount housing. Its large square lamp unit provides a generous and powerful light output while DMX512 control the FLOODLIGHT 3/225 RGB to be easily daisy-chained for stunning light effects on a large scale.

- 160° Tilt & 320° Pan Manual Adjustment
- 675 Ultra Bright LEDs
- DMX512 Control
- XLR Data Cabling
- External Power Supply



2. CONTENTS


1 x Floodlight 3/225 (DMX)
1 x 15VDC Power Supply & AC Cable
1 X Hex Key B.S. 7"32"
1 X Hex Key #5
1 X Hex Key #2.5
2 X Washers
2 X Mounting Screws

3. SAFETY AND OPERATION

CAUTION – UNPLUG THE POWER SUPPLY FROM MAINS POWER BEFORE CONNECTING ANY CABLES AS THIS CAN DAMAGE THE PRODUCTS !

CAUTION – AVOID LOOKING DIRECTLY INTO THE LED LIGHT SOURCE AT CLOSE RANGE FOR YOUR OWN SAFETY.

ANY PERSONS INSTALLING THIS PRODUCT SHOULD COMPLY WITH LOCAL STANDARDS AND REGULATIONS AND MUST BE QUALIFIED TO FOR THE HANDLING OF ELECTRICAL EQUIPMENT.

This product is designed for indoor use only

An ambient operating air temperature range of 0°C~+50°C (+32°F ~ +122°F) must be adhered to at all times

If the fixture has been subjected to drastic temperature variances e.g. following transportation, do not power on the fixture until it has reached room temperature, as internal condensation buildup may damage the fixtures electronics.

When installing the fixtures and system power supplies in the chosen locations please be sure they will not be exposed to moisture, extreme heat or direct sunlight and that it is in a dirt and dust free environment keeping the fixtures and system power supplies within their operating boundaries.

Please study all functions thoroughly via this User Manual and the latest Technical Specifications Sheets available from our website [www.traxontechnologies.com] before set-up.

4. PRODUCT DESCRIPTION

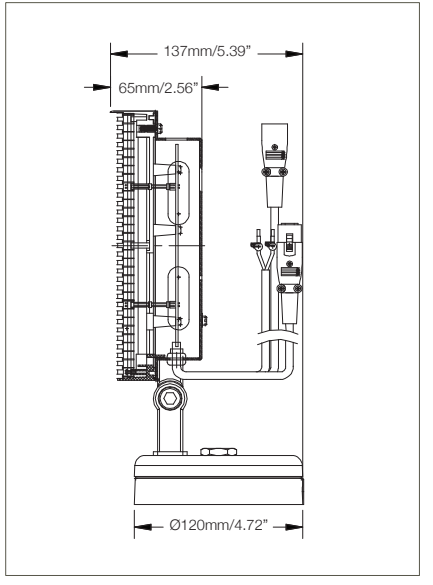
The ‘Floodlight 3/225’ is part of the Luminaires product group and features include low power consumption, high light output with an even beam spread of 30° and control via DMX512 with XLR 3Pin DMX connectors with DMX Start Address setting via the DIP Switch selector (located under the safety cover on the rear of the fixture head). The focal position can be adjusted and locked via the hex screw mechanism with 320° Base and 160° Head locking rotation, all powered by a low voltage external power supply for easy installation.

5. INSTALLATION AND SYSTEM CONFIGURATION

5-1 MOUNTING

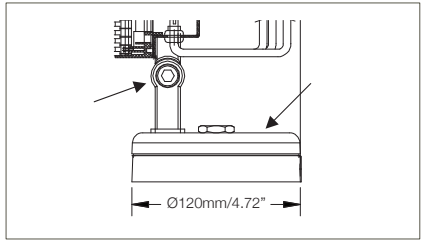
For installation, first unscrew the lamp unit from the base in order to access the cover (FIG 1). Next, unscrew the nut in the centre of the base fixture, separating it from the base plate. Select the desired location for the ‘Floodlight3/225’ and take care to keep the 2 mounting holes perpendicular to the direction that the ‘Floodlight’ will face and fix firmly to the chosen flat surface with the mounting screws and washers supplied. Once the base plate is fixed firmly in place, re-attach the head to the base and centre locking nut. Reaffix the lamp unit and reinsert the entry gland.

FIG 1



Located on the side of the head of the unit and also on the lamp base are locking hex screws to lock the fixture into position once the required focal position has been selected, use the Hex Keys provided to lock the Hex Screws firmly in place (FIG 2).

FIG 2



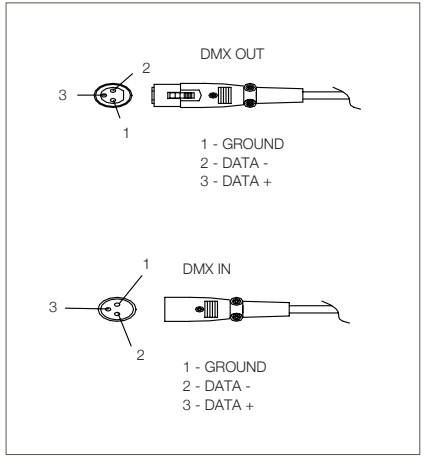
5-2 DATA CONNECTION

Data connection is via the XLR DMX connectors, which are hard wired into the fixture head and can be linked together in a daisy configuration for control on one DMX line.

For connection, follow the DMX IN and DMX OUT connector as per the drawing below (FIG3), with DMX IN being the male connector and DMX OUT being the female connector and firmly connect each fixture together making sure the locking mechanism is activated.

Should it be required to connect a data extension cable or starter cable, please also refer to the diagram (FIG3).

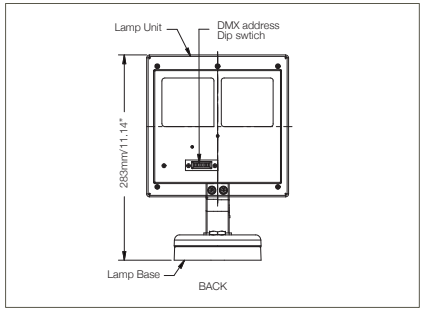
FIG 3



5-3 DMX START ADDRESSING

For DMX data connection, a maximum of 32 fixtures can be connected to in a daisy-chain configuration without use of a DMX repeater. To set the DMX Start Address, please remove the clear cover on the rear of the head to access the DIP SWITCH. (FIG 4)

FIG 4



NOTE: Please be sure to reset the power to the fixture should the DIP SWITCH be changed to another setting in order to reset the Start Address.

PLEASE NOTE – DIP SWITCH '10' SHOULD ALWAYS BE IN THE 'ON' (UP) POSITION

Please refer to the start address table for reference of the required DIP SWITCH settings:

(DIP Switch Setting: 0 = OFF 1 = ON)

DMX Address	1	2	3	4	5	6	7	8	9	10
1 - 3	0	0	0	0	0	0	0	0	0	1
4 - 6	1	0	0	0	0	0	0	0	0	1
7 - 9	0	1	0	0	0	0	0	0	0	1
10-12	1	1	0	0	0	0	0	0	0	1
13-15	0	0	1	0	0	0	0	0	0	1
16-18	1	0	1	0	0	0	0	0	0	1
19-21	0	1	1	0	0	0	0	0	0	1
22-24	1	1	1	0	0	0	0	0	0	1
25-27	0	0	0	1	0	0	0	0	0	1

DMX Address	1	2	3	4	5	6	7	8	9	10
28-30	1	0	0	1	0	0	0	0	0	1
31-33	0	0	0	0	1	0	0	0	0	1
34-36	1	0	0	0	1	0	0	0	0	1
37-39	0	1	0	0	1	0	0	0	0	1
40-42	1	1	0	0	1	0	0	0	0	1
43-45	0	0	1	0	1	0	0	0	0	1
46-48	1	0	1	0	1	0	0	0	0	1
49-51	0	1	1	0	1	0	0	0	0	1
52-54	1	1	1	0	1	0	0	0	0	1

DMX Address	1	2	3	4	5	6	7	8	9	10
55-57	0	0	0	1	1	0	0	0	0	1
58-60	1	0	0	1	1	0	0	0	0	1
61-63	0	0	0	0	0	1	0	0	0	1
64-66	1	0	0	0	0	1	0	0	0	1
67-69	0	1	0	0	0	1	0	0	0	1
70-72	1	1	0	0	0	1	0	0	0	1
73-75	0	0	1	0	0	1	0	0	0	1
76-78	1	0	1	0	0	1	0	0	0	1
79-81	0	1	1	0	0	1	0	0	0	1
82-84	1	1	1	0	0	1	0	0	0	1
85-87	0	0	0	1	0	1	0	0	0	1
88-90	1	0	0	1	0	1	0	0	0	1
91-93	0	0	0	0	1	1	0	0	0	1
94-96	1	0	0	0	1	1	0	0	0	1
97-99	0	1	0	0	1	1	0	0	0	1
100-102	1	1	0	0	1	1	0	0	0	1
103-105	0	0	1	0	1	1	0	0	0	1
106-108	1	0	1	0	1	1	0	0	0	1
109-111	0	1	1	0	1	1	0	0	0	1
112-114	1	1	1	0	1	1	0	0	0	1
115-117	0	0	0	1	1	1	0	0	0	1
118-120	1	0	0	1	1	1	0	0	0	1
121-123	0	0	0	0	0	0	1	0	0	1
124-126	1	0	0	0	0	0	1	0	0	1
127-129	0	1	0	0	0	0	1	0	0	1
130-132	1	1	0	0	0	0	1	0	0	1
133-135	0	0	1	0	0	0	1	0	0	1
136-138	1	0	1	0	0	0	1	0	0	1
139-141	0	1	1	0	0	0	1	0	0	1
142-144	1	1	1	0	0	0	1	0	0	1
145-147	0	0	0	1	0	0	1	0	0	1
148-150	1	0	0	1	0	0	1	0	0	1

DMX Address	1	2	3	4	5	6	7	8	9	10
151-153	0	0	0	0	1	0	1	0	0	1
154-156	1	0	0	0	1	0	1	0	0	1
157-159	0	1	0	0	1	0	1	0	0	1
160-162	1	1	0	0	1	0	1	0	0	1
163-165	0	0	1	0	1	0	1	0	0	1
166-168	1	0	1	0	1	0	1	0	0	1
169-171	0	1	1	0	1	0	1	0	0	1
172-174	1	1	1	0	1	0	1	0	0	1
175-177	0	0	0	1	1	0	1	0	0	1
178-180	1	0	0	1	1	0	1	0	0	1
181-183	0	0	0	0	0	1	1	0	0	1
184-186	1	0	0	0	0	1	1	0	0	1
187-189	0	1	0	0	0	1	1	0	0	1
190-192	1	1	0	0	0	1	1	0	0	1
193-195	0	0	1	0	0	1	1	0	0	1
196-198	1	0	1	0	0	1	1	0	0	1
199-201	0	1	1	0	0	1	1	0	0	1
202-204	1	1	1	0	0	1	1	0	0	1
205-207	0	0	0	1	0	1	1	0	0	1
208-210	1	0	0	1	0	1	1	0	0	1
211-213	0	0	0	0	1	1	1	0	0	1
214-216	1	0	0	0	1	1	1	0	0	1
217-219	0	1	0	0	1	1	1	0	0	1
220-222	1	1	0	0	1	1	1	0	0	1
223-225	0	0	1	0	1	1	1	0	0	1
226-228	1	0	1	0	1	1	1	0	0	1
229-231	0	1	1	0	1	1	1	0	0	1
232-234	1	1	1	0	1	1	1	0	0	1
235-237	0	0	0	1	1	1	1	0	0	1
238-240	1	0	0	1	1	1	1	0	0	1
241-243	0	0	0	0	0	0	0	1	0	1
244-246	1	0	0	0	0	0	0	1	0	1

DMX Address	1	2	3	4	5	6	7	8	9	10
247-249	0	1	0	0	0	0	0	1	0	1
250-252	1	1	0	0	0	0	0	1	0	1
253-255	0	0	1	0	0	0	0	1	0	1
256-258	1	0	1	0	0	0	0	1	0	1
259-261	0	1	1	0	0	0	0	1	0	1
262-264	1	1	1	0	0	0	0	1	0	1
265-267	0	0	0	1	0	0	0	1	0	1
268-270	1	0	0	1	0	0	0	1	0	1
271-273	0	0	0	0	1	0	0	1	0	1
274-276	1	0	0	0	1	0	0	1	0	1
277-279	0	1	0	0	1	0	0	1	0	1
280-282	1	1	0	0	1	0	0	1	0	1
283-285	0	0	1	0	1	0	0	1	0	1
286-288	1	0	1	0	1	0	0	1	0	1
289-291	0	1	1	0	1	0	0	1	0	1
292-294	1	1	1	0	1	0	0	1	0	1
295-297	0	0	0	1	1	0	0	1	0	1
298-300	1	0	0	1	1	0	0	1	0	1
301-303	0	0	0	0	0	0	0	0	1	1
304-306	1	0	0	0	0	0	0	0	1	1
307-309	0	1	0	0	0	0	0	0	1	1
310-312	1	1	0	0	0	0	0	0	1	1
313-315	0	0	1	0	0	0	0	0	1	1
316-318	1	0	1	0	0	0	0	0	1	1
319-321	0	1	1	0	0	0	0	0	1	1
322-324	1	1	1	0	0	0	0	0	1	1
325-327	0	0	0	1	0	0	0	0	1	1
328-330	1	0	0	1	0	0	0	0	1	1
331-333	0	0	0	0	1	0	0	0	1	1
334-336	1	0	0	0	1	0	0	0	1	1
337-339	0	1	0	0	1	0	0	0	1	1
340-342	1	1	0	0	1	0	0	0	1	1

DMX Address	1	2	3	4	5	6	7	8	9	10
343-345	0	0	1	0	1	0	0	0	1	1
346-348	1	0	1	0	1	0	0	0	1	1
349-351	0	1	1	0	1	0	0	0	1	1
352-354	1	1	1	0	1	0	0	0	1	1
355-357	0	0	0	1	1	0	0	0	1	1
358-360	1	0	0	1	1	0	0	0	1	1
361-363	0	0	0	0	0	1	0	0	1	1
364-366	1	0	0	0	0	1	0	0	1	1
367-369	0	1	0	0	0	1	0	0	1	1
370-372	1	1	0	0	0	1	0	0	1	1
373-375	0	0	1	0	0	1	0	0	1	1
376-378	1	0	1	0	0	1	0	0	1	1
379-381	0	1	1	0	0	1	0	0	1	1
382-384	1	1	1	0	0	1	0	0	1	1
385-387	0	0	0	1	0	1	0	0	1	1
388-390	1	0	0	1	0	1	0	0	1	1
391-393	0	0	0	0	1	1	0	0	1	1
394-396	1	0	0	0	1	1	0	0	1	1
397-399	0	1	0	0	1	1	0	0	1	1
400-402	1	1	0	0	1	1	0	0	1	1
403-405	0	0	1	0	1	1	0	0	1	1
406-408	1	0	1	0	1	1	0	0	1	1
409-411	0	1	1	0	1	1	0	0	1	1
412-414	1	1	1	0	1	1	0	0	1	1
415-417	0	0	0	1	1	1	0	0	1	1
418-420	1	0	0	1	1	1	0	0	1	1
421-423	0	0	0	0	0	0	1	0	1	1
424-426	1	0	0	0	0	0	1	0	1	1
427-429	0	1	0	0	0	0	1	0	1	1
430-432	1	1	0	0	0	0	1	0	1	1
433-435	0	0	1	0	0	0	1	0	1	1
436-438	1	0	1	0	0	0	1	0	1	1

DMX Address	1	2	3	4	5	6	7	8	9	10
439-441	0	1	1	0	0	0	1	0	1	1
442-444	1	1	1	0	0	0	1	0	1	1
445-447	0	0	0	1	0	0	1	0	1	1
448-450	1	0	0	1	0	0	1	0	1	1
451-453	0	0	0	0	1	0	1	0	1	1
454-456	1	0	0	0	1	0	1	0	1	1
457-459	0	1	0	0	1	0	1	0	1	1
460-462	1	1	0	0	1	0	1	0	1	1
463-465	0	0	1	0	1	0	1	0	1	1
466-468	1	0	1	0	0	0	1	0	1	1
469-471	0	1	1	0	0	0	1	0	1	1
472-474	1	1	1	0	0	0	1	0	1	1

DMX Address	1	2	3	4	5	6	7	8	9	10
475-477	0	0	0	1	0	0	1	0	1	1
478-480	1	0	0	1	0	0	1	0	1	1
481-483	0	0	0	0	0	1	1	0	1	1
484-486	1	0	0	0	0	1	1	0	1	1
487-489	0	1	0	0	0	1	1	0	1	1
490-492	1	1	0	0	0	1	1	0	1	1
493-495	0	0	1	0	0	1	1	0	1	1
496-498	1	0	1	0	0	1	1	0	1	1
499-501	0	1	1	0	0	1	1	0	1	1
502-504	1	1	1	0	0	1	1	0	1	1
505-507	0	0	0	1	0	1	1	0	1	1
508-510	1	0	0	1	0	1	1	0	1	1

For Static Mode:

Color	1	2	3	4	5	6	7	8	9	10
Slighty Red	0	1	0	1	0	1	0	1	1	1
Slighty Green	1	1	0	1	0	1	0	1	1	1
Slighty Blue	0	0	1	1	0	1	0	1	1	1
Red	1	0	1	1	0	1	0	1	1	1
Green	0	1	1	1	0	1	0	1	1	1
Blue	1	1	1	1	0	1	0	1	1	1
Yellow	0	1	0	1	1	1	0	1	1	1
Cyan	1	1	0	1	1	1	0	1	1	1
Purple	0	0	1	1	1	1	0	1	1	1
Half White	1	0	1	1	1	1	0	1	1	1
Fully White	0	1	1	1	1	1	0	1	1	1

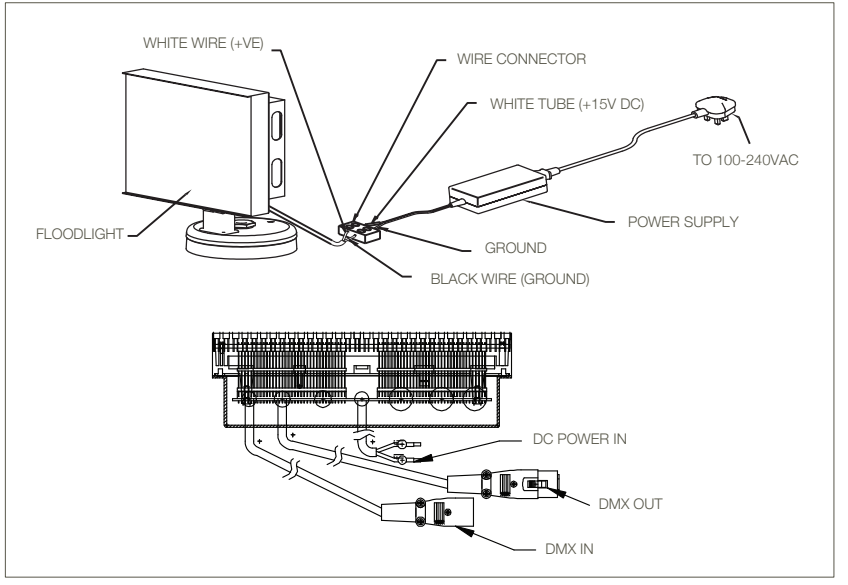
5-4 POWER CONNECTION

The 'Floodlight' uses an external 15VDC single power supply. For connection of the mains AC input cable and 15VDC supply output, please refer to the diagram below. (FIG 5)

IMPORTANT NOTE – DC POWER CONNECTION:

PLEASE BE SURE TO FOLLOW THE (+) & (-) MARKINGS WHEN CONNECTING THE DC POWER TO THE FIXTURE AS FAILURE TO DO SO WILL RESULT IN PRODUCT FAILURE AND WILL CAUSE ELECTRONIC DAMAGE TO THE FIXTURE VOIDING THE WARRANTY.

FIG 5



CAUTION - PLEASE ENSURE THAT THE POWER IS SWITCHED OFF WHEN THE CABLES ARE BEING CONNECTED

When installing the fixtures and system power supplies in the chosen locations, please be sure they will not be exposed to moisture, extreme heat or direct sunlight and that it is in a dirt and dust free environment keeping the fixtures and system power supplies within their operating boundaries.

5-5 CONTROL

• DMX 512 (DMX Versions only)

CHANNEL 1	RED	DMX VALUE 0-255
CHANNEL 2	GREEN	DMX VALUE 0-255
CHANNEL 3	BLUE	DMX VALUE 0-255

DMX VALUES TO ACHIEVE SET COLORS

COLOR	CHANNEL 1	CHANNEL 2	CHANNEL 3
RED	255	0	0
GREEN	0	255	0
BLUE	0	0	255
CYAN	0	255	255
YELLOW	255	255	0
MAGENTA	255	0	255

6. CARE AND MAINTENANCE

Traxon™ products are of superior design and quality and should be treated with care. The recommendations below will help fulfill and warranty obligations and gain good use and longevity from the products.

- Make sure that the power is swtiched off before installation and/or maintenance
- Make sure that the products are installed correctly and securely
- For indoor use only
- Keep products in a dry and precipitation free area as this may damage the products' electronics
- Keep products in a dirt and dust free environment
- Make sure the products are not exposed to extreme heat and that they have sufficient airflow and cool air circulation if required
- Do not attempt to service or repair the products unless done by an authorized service personnel. Contact the local Traxon office or distributor for details
- Do not drop, knock or shake the products as rough handling may damage the electronics and void the warranty
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean. Wipe with a damp cloth on housings and a dry cloth on electronics to remove dirt or dust

If the products are not working correctly, please contact your nearest authorized service centre or Traxon office for assistance.

7. TECHNICAL SPECIFICATION

Traxon™ FLOODLIGHT 3/225

Color Range – 16.7 million of additive RGB colors with variable intensity
Light Source – Ultra Bright LED – 675 (225 Red, 225 Green, 225 Blue)
Source Life – 50,000 hours under normal operating conditions
Beam Angle – 30°
Power Input – 15VDC
Current Consumption: 3.57A max
Power Consumption – 50W max
Operating Temperature – Range 0°C~+50°C (+32°F ~ +122°F)

Switching Power Supply

Load Voltage – 15VDC + 5%
Output Current – 0.1~4A
Input Voltage – 100-240 VAC
Saftey Standards - <UL60950-1 TUV EN60950-1 Approved

8. WARRANTY STATEMENT

Traxon warrants its Products against material or workmanship defects for a period of one (1) year from date of purchase, provided that the purchased items are used under the conditions stated in this user manuals.

Please refer to the Product Warranty section under www.traxontechnologies.com/terms for warranty terms and conditions.